

Fuel injection system for an internal combustion engine

Patent number: CH674243

Publication date: 1990-05-15

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Classification:

- international: F02M41/00; F02M45/00

- european: F02D41/30D; F02M47/02; F02M59/20B; F02M59/34;
F02M63/00C3; F02M63/02B3; F02M63/02C;
F04B49/22A

Application number: CH19870002598 19870708

Priority number(s): CH19870002598 19870708

Also published as:

EP0299337 (A2)
US4884545 (A1)
JP1087868 (A)
EP0299337 (A3)

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Abstract not available for CH674243

Abstract of corresponding document: EP0299337

A high-pressure, continuous-delivery piston pump (4), controlled as a function of engine speed and load, supplies fuel to an accumulator (6) supplying injectors (2). On the intake side of the pump (4), there is provided a throttle (18) for metering the amount of fuel supplied by the pump (4). Via operating signals, the throttle (18) is regulated by an electronic control device (9) in such a manner as to supply the pump (4) and pressurize only the amount of fuel strictly required for operating the injectors (2) and the engine (1), thus eliminating any energy losses caused by fuel feedback to the tank (3), and drastically reducing fuel consumption.

